

Solving Equations with Variables on Both Sides

Directions: Solve each equation. Use your answer to navigate through the maze. Show your work.

START $2(4x - 3) = 5x - 18$	$\frac{12 + x}{4} = \frac{-6 - x}{2}$	$-\frac{x}{4} - 2 = x + 3$	$\frac{12 + 3x}{2} = \frac{4x + 6}{3}$
$x = -4$	$x = -6$	$x = -3$	
$x = 2$	$x = 1$	$x = -1$	$x = -24$
$4(x + 1) = 2x + 2$	$x + \frac{x}{2} = 1 + 2x$	$x - 5(x + 1) = 5 + x$	$1 - \frac{x}{6} = \frac{x}{2} - 3$
$x = -1$	$x = -2$	$x = -2$	
$x = 1$	$x = 2$	$x = \frac{1}{2}$	$x = -3$
$-2x + 3 = 2(2 - x)$	$-7(x + 2) = x + 2$	$\frac{x}{4} + x = \frac{x}{2} - 3$	$12 + \frac{10}{x} = 10 - 12$
$x = -2$	$x = -4$	$x = 4$	
$x = -1$	$x = 10$	$x = -\frac{1}{2}$	$x = 2$
$\frac{6x - 5}{2} = \frac{3x + 12}{6}$	$-(x + 12) = -3x + 2$	$x - \frac{x}{4} = \frac{-(x + 5)}{2}$	
$x = 1$	$x = 7$	$x = -2$	
			